All India Co-ordinated Research Project on NICRA

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Annual Progress Report (1.4.2012 to31.3.2013)

Department of Agricultural Meteorology College of Horticulture Kerala Agriculture University Vellanikkara, Thrissur-680 656

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All India Co- ordinated Research Project- NICRA

1. Title of the project

: All India Co-ordinated Research Project on NICRA .

2. Location of the co- ordinating

: Agricultural Meteorology,

College of Horticulture, Vellanikkara

Thrissur 680 656, Kerala

3. Geographical Co-

: Latitude - 10°31'N

Ordinates of the

Longitude - 76°13'N

Location

Altitude - 25 m amsl

4. Sanction Number

:. No.EP-A1-9390/11 dt.23-03-2011 of ICAR

No. R3/61121/2011 dt.17-03-2013 of KAU

5. Date of start

: 2010-2011

6. Report period

: 2012-2013

7. Objectives

To identify micro level details of crop and crop growing environments of the selected NICRA- villages.

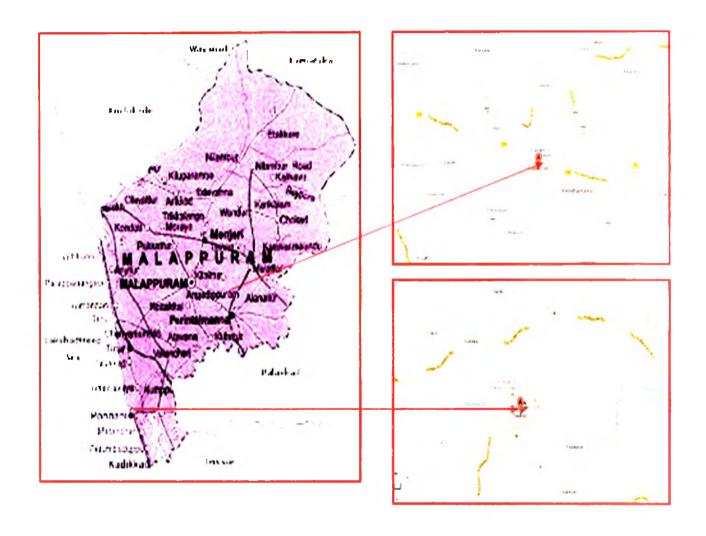
To develop crop weather relationships of major crops of the selected NICRA- villages

❖ To disseminate Agro met Advisory bulletin to the selected NICRA- village.

8. Outline of Technical programme

This study aims to identify micro level details of crop and crop growing environments of the selected NICRA- villages at Malappuram district. Collection of long term district level crop and weather data for the Malappuram district. To disseminate Agromet Advisory bulletins to the farmers. Benchmark survey will be conduct at Malappuram district.

STUDY AREA



9. Results obtained during the period:

The work is concentrated at KVK Malappuram. Bench Mark Survey started at Thavanur from 10.01.2013 onwards. A Benchmark survey will be conducted in selected two villages (Thavanur, Angadippuram) of Malappuram district. From each village 60 farmers will be selected and interviewed. Rice based and vegetable based farmers were selected in both the villagers. Based on the survey proforma, village profile details and individual farmer profile were collected. Collection of farmer's knowledge on climate change and its impact on agriculture is going on. Weather data for the period from 2003 to 2009 were collected from KCAET College, KAU. Two farmers awareness programme were conducted in Thrissur district on 21/03/2013 and 22/03/2013 at Mannuthy and Karalam respectively.

10. Dissemination of AA Bulletins

Hard copies of Bulletins are disseminated to the selected farmers of Thavanur and Angadippuram villages in Malappuram District.

FARMERS AWARENESS PROGRAMME

SI NO	Date	Venue	No.of participants	Class/ seminar
1.	21/03/2013	Mannuthy	60	Control of varios diseases in vegetables taken by Dr. Saina Mol Kurian "Climate change" taken by Smt. P. Lincy Davis.
2.	22/03/2013	Karalam	60	"Climate change" taken by Smt. P. Lincy Davis. 2.Control of varios diseases in vegetables taken by Dr. Saina Mol Kurian

FARMERS AWEARENESS PROGRAMME





BENCH MARK SURVEY





Appendix I: BENCHMARK SURVEY PERFORMA

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· .		vears) to construct of flood during last 10 years (No. of :
BENCHMARK SURVEY PROFORM	IA FOR AICRPAM-NICRA PROJECT	17. No. of term brawledge contres, if any, in the : L KVK Haloppoists village / near village
		Distance of farm knowledge centre
I. Villag	ge Profile	Nature of tarm knowledge provided
	Theyarus	Agencies involved in providing farm knowledge : 18. No. of Self Help Groups (SHG) operating in the :
1. Name of C.D. Block		1
2. Name of the District	Thayerru	a. No. of women SHG operating in / near the :
	: Malappuram	Nature of agricultural activities covered by the SHG in the village
3. Name of the Village	Thavenes	19. Whether Kisan Club is present? If yes, its name
4. Farming households in the village (No.)	:	20. Inspenty of Village Level Works with
5. Total population in the vitage (No.) ろものと	· Male I	21. No. of farmers recognized the VAW/U) w in .
	:Male [] R B 93 Female [] 8375	the village
a. SC population in the village (No.) 534g	Male [] 2646 Female [] 2667	22. Mass media outreach in the village
b. ST population in the village (No.)	Male [] Female []	a. No. daily news papers subscribed b. No. of Rodios
6. Farmers in the village (No.) 1000	:Marginal [] 300 Small [] \$00	c. No. of TVs
7. Landless labourers in the village (No.)	300 Small 1 400	d. No. of printed bulletine/magazines :
	200	
8. Gross cropped area in the village (he)	- 500 ha	23. Weather Forecast Outresch Minibly
Sources of irrigation and percentage of area irrigated	;	S.No. Particulars 1. No. of forwasts in a week TV Radio Print Media Personal visit Others
-		Name of Channel/Station/Newspaper, etc. in order of priority
Source of intigation	: Well, purpeet.	
Area (ha)		h
No. of households engaged in crop production		3. % Farmers outreach
a a way proceeding	<u> </u>	<i>t</i>
11. Swason-wise Existing cropping pattern in the vill	are with a second of the secon	Agro Advisory Outrooch
Season-wise Existing coopping pattern in the vill and yield (q/hs) under the crups	age with variety (FFV / Lorol), and coverage (ha)	- Agro Advisory Outreach : Ab
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Crop Flant Veriety Area (ha) Yield (q) Variety Paddy	Ratio	S.No. Particulars IV Radio Print Media Personal Others L. No. of Agro Advisory in a week
Crop Klary Vasiety Area (has) Yield (q) Vasiety Dry secreted Wet asserted Wet asserted	Ratio	S.No. Particulars I. No. of Agro Advisory in a week Z. Name of Channel/Station/Newspaper, etc. in order of priority a. b.
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2.	Former's Name	Huners C.P		C. Existing	g Machinery	. Containe	tot Tonle an		nt Inventory:		L	i
3.	Family Size	Small		Name			Ownership					
4.	Village	Thereous	П					Purch Yea	Years	Remain Life		Value (s.)
5.	Block		H	Zsacz	5.8	-	MUNEL	2011	Model		6,60.0	00/
6.	District	Наварринат	11	<u> </u>				<u> </u>		-		
7.	State	_KIRA/a		Tracios, Power?	Tiber, Power spr	ayer, Weavin	g Loon, Fishin	g nets, traps.	Sheller, Anlerel c	art, Biryete, Week	r, Floe, Stanet, Rake	
8. 9.	Farmer's age	36		D. Existing i	Land Usy Pa	ittern (rece	ord crops gr	nitub nwa	g the selected	orterence perior	tı.	
9.	Education of the farmer	884C	[*	Parcel	Flat C	Jop Varia		Cropped Area (ha)	Catablabanen	Predu		
	.				 			<u></u>		Maia Valley Predact : (Re.)	Product Natur	Total Value (Ra.)
~ ;	Demographic Information (Including family and in household and and taking food from the same kitchen	on-family members living permanently in the during the selected reference period)	ll E					 	<u>+</u>			1
S. No.	Name of the Relation ; Sex Age Civil	Education Occupation	II F			<u> </u>						
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2	Turnaileth side linal 26	ALL	Н	E. Çast of Pro								
1	Makements Bon Male 6	11 class	_	the largest	Parcel / Plo	grown to	• Variety d	other Crop	os (During the	Selected Refer	ence period) (Sel	lect
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فديرا	Crop Output and Disposal (Including production year)	n and disposal of crops grown during the solered		/ III. Pe	rception	knowle	dge of fa	rmers al	out clima	e change ar	nd ite i+	_
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	rop Name Year	n and disposal of crops grown during the selected Total production Quantity sold (q)		1. Percepti	on of farm					e change ac eather parar	ad its impact i neters	οη
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	Top Name Year	Total production Ouantity sold for		1. Percepti. S.No. State 1. Num a A b. L 2. Amo b. M c. M c	on of farm mements aber of rainy flore ess unt of rainfall floculium con frainfall in time egular collish col	y days (>) all rain/all rain/all patten	2.5 mm)	Precipi	lation; [Sefore 10 Years	Since last	Very record (since last 5 Y	nl .
	Top Name Year	Total production Ouantity sold for		1. Percepti. S.No. State 1. Num a. A. b. L. 2. Amo a. H. 5. Orset 3. Orset 4. Or 5. Irr 4. Dry S. 6. La 6. Shang 6. Chang 6. Grown 6. Chang 6. C	on of farm mements aber of rainy flore ess unt of rainfall floculium con frainfall in time egular collish col	y days (>) all rain/all rain/all patten	2.5 mm)	Precipi	lation; [Sefore 10 Years	Since last	Very record (since last 5 Y	nl .
	Top Name Year	Total production Ouantity sold for		1. Percepti. S.No. State 1. Num a A b. L 2. Amo b. M c. M c	on of farm mements aber of rainy flore ess unt of rainfall floculium con frainfall in time egular collish col	y days (>) all rain/all rain/all patten	2.5 mm)	Precipi	lation; [Sefore 10 Years	Since last	Very record (since last 5 Y	nl .
	Top Name Year	Total production Ouantity sold for		1. Percepti. S.No. State 1. Num a A b. L 2. Amo b. M c. M c	on of farm mements aber of rainy flore ess unt of rainfall floculium con frainfall in time egular collish col	y days (>) all rain/all rain/all patten	2.5 mm)	Precipi	lation; [Sefore 10 Years	Since last	Very record (since last 5 Y	nl .

á.No.	eption of farmers on changes in the Statements	Betore 10	Years S	nce last 10 Ye		
1.	Change in temperature				(Since fast	eceni 5 Years)
	a. Increased		— <u>-</u> ;_			
	b. Decreased	 -				
	No change	╌┝╌╌				
2. 1	Extreme temperature		· <u>-</u>	-	. — — — — — — — — — — — — — — — — — — —	
	. Very frequently	 -			i	
h	Less frequently	- 				
_ c	Not experienced at all	j			<u>-</u>	
ii.	Extremes of low temperature	- -	i			
	Very frequently					:
Ь,	Less frequently		: -		, <u>-</u>	;
C.	Not experienced at all	 			 	
Eνη	perienced scorching sunshing	 -	 ¦		<u> </u>	
	High	 -	 -		 	!
Ь.	Moderate	 	- -		<u> </u>	
c.	Low	i		<u>/</u>		
d.	Not at all experienced		- -			
	ariation in summer temperature		- 	- 	<u>-</u>	
a. 1						'
j b. N	Moderate	— <u> </u>		<u> </u>		
C. L	ow -					
d. N	ot at all experienced			i		
	riation in winter summer		- -	· L		
e. H	gh		 	<u>/</u>		
f. M	oderate		÷	_ _		
g. Lo	*			1		7

Soil nutrient status due ty climate change 10 Years 10 Years		posure and vulnerability of agricultural crops to Statements			
a. Increase b. Decrease c. No change c. No change l. Sowing a. Early b. Late c. No change ii. Transplanting a. Early b. Late c. No change iii. Transplanting a. Early b. Late c. No change iii. Transplanting a. Early b. Late c. No change iii. Any other c. No change iii. Any other c. No change iii. Any other d. Increase b. Decrease c. No change iii. Emergence of new word species due to climate change (Yee / No / II any) d. 1. Disease inclidence a. High b. Medium c. Low iii. Occurrence of new diseases a. Yes b. No c. If any c. Copy looses due to any informe affects (theory trainfall, hailstones, cyclones, wind velocity, etc.) c. Post-harvest losses due to climate change (Yes / No) c. Hailstones, cyclones, wind velocity, etc.) c. Post-harvest losses due to climate change (Yes No) c. Changes in yield a. Increase b. Decrease c. No change ii. Change ii. Change ii. Change ii. It is increased, income per annum/ season (Rs.) iii. Impact of larm income a. Increase b. Decrease c. No change iii. In increase c. No change iii. It is increased, income per annum/ season (Rs.) iii. Impact of larm income		<u> </u>	Before	Since last	Very recent
b. Decrease c. No change c. No change l. Sowing a. Early b. Lete c. No change li. Transplanting a. Early b. Late c. No change li. Transplanting a. Early b. Late c. No change li. Transplanting a. Early b. Late c. No change lii. Any other liii. Emergence of new weed species due to climate change (Yes) No / II any) c. No change liii. Emergence of new weed species due to climate change (Yes) No / II any) c. Low liii. Dissess incidence la. High liii. Medium c. Low liii. Occurrence of new diseases liii. Occurrence of new diseases liii. Comp losses due to climate change (Yes) No c. II any c. Low liii. Occurrence of new diseases liii. Comp losses due to climate change (Yes) liii. Comp losses due to climate change (Yes) liii. Compasse liii. Changes in vield liii. In lii is increased liii. Changes in cost of cultivation liii. In lii is increased liii. Il lii is increased, income per annum/ season (Re.) liii. Il liii is increased.	_1.	Soil nutrient status due tu climate change	10 Te41P	<u>10 Years</u>	(since last 5 Year
c. No change 2 Any changes in rultural operations 1. Soving 3. Early 4. Larly 5. Late 6. No change 1ii. Instructions 1ii. Instructions 1ii. Instructions 1iii. Instructions 1iii. Instructions 1iii. Any other 1iii. Instructions 1iii. Instr		a. Increase			
2. Any change in cultural operations 1. Sowing 2. Early 3. Early 4. Late C. No change ii. Transplanting a. Farly b. Late c. No change iii. Any other 2. I. Changes in weed infestation A. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate change (Yee / No / II any) 4. I. Disease inclience a. High b. Medium c. Low iii. Occurrence of new diseases a. Yes b. No c. If any c. If any c. Lift in the control of the				÷:	
2. Any changed in cultival operations 1. Sowing 2. Early 3. Early 4. C. No charge ii. Transplanting a. Farly b. Law c. No change iii. Any other 2. I. Changes in weed infestation a. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate change (Yee / No / II any) 4. I. Disease inclidence a. High b. Medium c. Low iii. Occurrence of new diseases a. Yes b. No c. Iff any c. Changes in color any antiverse affects (theory trainfall, hallstomes, cyclones, wind velocity, etc.) Changes in yield a. Increase b. Decrease c. No change ii. Changes in color of cultivation a. Increase b. Decrease c. No change ii. If it is increased, income per annum/ season (Rs.) iii. Impact of larm income iii. Increase		c. No change	!		
h. Sovelng a. Early b. Lete c. No charge ii. Freesplanting a. Early h. Law c. No charge iii. Any other jiii. Any other c. No change iii. Emergence of new weed species due to climate change (Yee / No / II any) d. Dissess' inclidence d. High b. Medium c. Low iii. Occurrence of new diseases a. Yes b. No c. If any c. Cop lasses due to any affects affects (heavy name) for the special due to any affects affects (heavy name) for the special due to any affects affects (heavy name) for the special due to any affects affects (heavy name) for the special due to climate change (Yes No) for Danges in yield a. Increase b. Decrease c. No change jii. If it is increased, income per annum/ season (Re.) al. In it is increased, income per annum/ season (Re.) al. Impact of Jarm income	2.	Any changes in cultural operations			
a. Early b. Lake c. No change ii. Transplanting a. Early b. Lake c. No change iii. Transplanting a. Early b. Lake c. No change iiii. Any other c. No change iiii. Any other c. No change iii. Emergence of new weed species due to climate change (Yes / No / H any) d. I. Disease incidence change (Yes / No / H any) d. I. Disease incidence c. No change iii. Occurrence of new diseases a. Yes ii. Occurrence of new diseases a. Yes ii. Occurrence of new diseases a. Yes b. No c. If any c. Lift in the control of the change (Yes / No) c. If any c. Change an yield a. Increase b. Decrease c. No change ii. I. Changes in cost of cultivation a. Increase b. Decrease c. No change ii. If it is increased, income per annum/yearson (Rs.) iii. Impact of larm income a. Increase b. Decrease c. No change iii. If it is increased, income per annum/yearson (Rs.) iii. Impact of larm income		i. Sowing	<u></u>	ı — - —	
C. No charge B. Fransplanting a. Farly b. Late c. No charge iii. Any other A. I. Changes in weed infestation a. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate change (Yes / No / II any) 4. I. Obsease incidence a. High b. Medium c. Low ii. Occurrence of new diseases a. Yes b. No c. I flany c. Low ii. Occurrence of new diseases a. Yes b. No c. I flany c. Low iii. Occurrence of new diseases a. Yes b. No c. I flany c. Low companies of the many attente attents (heavy rainfall, hailstones, syciones, wind velocity, etc.) f. Post-harvest losses due to climate change (Yes / No) Changes in yield a. Increase b. Decrease c. No change ii. Changes in cost of cultivation a. Increase b. Decrease c. No change iii. If it is increased, income per annum/season (Rs.) iii. Impact of larm income iii. Impact of larm income	\neg		· — —	l	
C. No charge B. Fransplanting a. Farly b. Late c. No charge iii. Any other A. I. Changes in weed infestation a. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate change (Yes / No / II any) 4. I. Obsease incidence a. High b. Medium c. Low ii. Occurrence of new diseases a. Yes b. No c. I flany c. Low ii. Occurrence of new diseases a. Yes b. No c. I flany c. Low iii. Occurrence of new diseases a. Yes b. No c. I flany c. Low companies of the many attente attents (heavy rainfall, hailstones, syciones, wind velocity, etc.) f. Post-harvest losses due to climate change (Yes / No) Changes in yield a. Increase b. Decrease c. No change ii. Changes in cost of cultivation a. Increase b. Decrease c. No change iii. If it is increased, income per annum/season (Rs.) iii. Impact of larm income iii. Impact of larm income		b. Late	!— —		
iii. Transplanting a. Early b. Late c. No change iii. Any other 2. I. Changes in weed Infestation a. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate change (Yes / Mo / H any) 4. I. Disease incidence a. High b. Medium c. Low iii. Occurrence of new diseases a. Yes b. No c. If any C. If any C. Change in content of the word of the content of the c	-1				
a. Early b. Late c. No change iii. Any other 2. i. Changes in weed infestation a. Increase b. Decrease c. No change iii. Emergence of new weed species due to climate changy (Yes / No / II any) i. Disease incidence a. High b. Medium c. Low iii. Occurrence of new diseases b. No c. II any c. Copy losses due to any attivetse attents (heavy raudal), hailstones, cyclones, wind velocity, etc.) (Yes / No) Costantivets losses due to climate change (Yes No) Changes in yield a. Increase b. Decrease c. No change ii. Changes in cost of cultivation a. Increase b. Decrease c. No change ii. I'll its increased, income per annum/yeason (Re.) iii. Impact of Jarm income iii. Impact of Jarm income iii. Impact of Jarm income	-1	ii. Transplanting			
B. Late C. No change D. C. No change D. C. No change D. Changes in weed infestation D. Changes in weed infestation D. Changes in weed of species due to climate change (Yes / No / H any) D. Decrease D. Decreas		a. Farly			
t. No change iii. Any other 1. Changes in weed infestation 2. I. Changes in weed infestation 2. Increase ib. Decrease c. No change iii. Emerase d. No change iii. Emerase d. No change iii. Emerase d. No change d. Libisassi incidence d. High b. Medium c. Low iii. Occurrence of new diseases d. Yes b. No c. If any c. Copy losses due to any adverse alteris (heavy roundal, hadistones, cyclones, wide velocity, etc.) (Yes / No) Congress in yeld d. Increase b. Decrease c. No change d. Lichenges in cost of cultivation d. Increase b. Decrease c. No change d. Il Changes in cost of cultivation d. Increase d. Decrease d. No change d. Il It it is increased, income per annum/season (Re.) dil Impact of Jarm income d. Increase d. I	·+				
iii. Any other 3. I. Changes in weed infestation 4. Increase 1b. Decrease 1c. No change iii. Emergence of new weed species due to climate change (Yes) No / II any) 4. I. Disease incidence 2. High 2. High 3. High 4. I. Disease incidence 3. High 5. Medium 4. Low 6. Low 6. Low 6. Low 6. Courrence of new diseases 6. Yes 6. Yes 6. To go bosed due to any attense attents theory painfull, hailstones, cyclones, wind velocity, etc.) 6. Post-harvest losses due to climate change (Dos. No) 6. Post-harvest losses due to climate change (Dos. No) 7. Changes in yield 6. Vorease 6. No change 6. Lobange 6. Lobange 6. Lobange 6. High is increase 6. No change 6. High is increase 6. No change 6. High is increased, income per annum/ season (Rs.) 6. Impact of Jarm income 6. Increase	-+			!	
3. i. Changes in weed infestation A. Increase A. Increase D. Decrease C. No change ii. Emergence of new weed species due to climate change (Yes) No / II any) f. Dissess inclidence a. High D. Medium C. Low ii. Occurrence of new diseases a. Yes D. No C. Il may Corp losses due to an antherse attent (heavy natural) halistones, cyclones, wind velocity, etc.) Cost / No) Cost parces D. Post-harvest losses due to climate change (Yes No) Changes in yield a. Increase D. Decrease C. No change I. Changes in cost of cultivation a. Increase D. Decrease C. No change II. If its increased, income per annum/season (Re) iii. Impact of larm income iii. Impact of larm income	-+	in 1		-	
A increase D. Decrease C. No change ii. Emergence of new word species due to climate change (Yes / No / II any) i. Disease inclidence a. High D. Medium c. Low ii. Occurrence of new diseases ii. Occurrence of new diseases ii. Occurrence of new diseases c. If any Crop losses due to any affectse affects (heavy noutals, hailstones, cyclones, wind velocity, etc.) (Yes / No) Post-harvest losses due to climate change (Yes No) Changes in vield a. Increase D. Decrease c. No change ii. Utilis increased, income per annum/season (Re) iii. Impact of Jarm income	╮┼	III. ANY DUNET		——I:	
b. Decrease i. Linergence of new weed species due to climate change (Yes / No / II any) 4. Universal includence a. High b. Medium c. Low iii. Occurrence of new dibeases a. Yes b. No c. Iff any Crop losses due to any atherse attents theavy (Yes / No hallstones, cyclones, wind velocity, etc.) (Yes / No hallstones, cyclones, wind velocity, etc.) Post-harvest losses due to climate change (Yes No) Changes in yield a. Increase b. Decrease c. No change I. Change in cost of cultivation a. Increase b. Decrease c. No change I. Change in cost of cultivation a. Increase b. Decrease c. No change I. Change in cost of cultivation a. Increase b. Decrease c. No change II. If its increased, income per annum/ season [66,) aii. Impact of Jarm income a. Increase	-4	i. Changes in weed infestation		<u>-</u>	
C. No change ii. Emergence of new weed species due to climate change (Yee) No / II any) 4. 1. Disease inclidence 3. High b. Medium c. Low ii. Occurrence of new diseases iii. Occurrence iii				· +	
ii. Emergence of new weed species due to climate change (Yee / No / II any) 4. 1. Disease includence a. High b. Medium c. Low ii. Occurrence of new diseases a. Yes b. No c. If any c. Low ii. Occurrence of new diseases a. Yes b. No c. If any c. If any c. Hange c. Low iii. Occurrence of new diseases a. Yes b. No c. If any c. If any c. Copy losses due to any interse affects (theory trainfall, hallstones, cyclones, wind velocity, etc.) b. Post-harvest losses due to climate change (Yes No) Changes in visid a. Increase b. Decrease c. No change l. If its increased, income per annum/ season (Rs.) al. Impact of larm income la. Increase			i	ㅡ- ㅗ	
a. High b. Medium c. Low ii. Occurrence of new diseases ii. Occurrence of new diseases a. Yes b. No c. Iffany c. Orop losses due to any infactse alocits (heavy roundall, hallstones, cyclones, wind velocity, etc.) (Yes / No. Changes in yield a. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/season [6s] iii. Impact of Jarm income d. Increase	—J.	c. No change		+	
a. High b. Medium c. Low ii. Occurrence of new diseases ii. Occurrence of new diseases a. Yes b. No c. Iffany c. Orop losses due to any infactse alocits (heavy roundall, hallstones, cyclones, wind velocity, etc.) (Yes / No. Changes in yield a. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/season [6s] iii. Impact of Jarm income d. Increase	_	change (Yes / No / If any)	— — †	+	
b. Medium c. Low li. Occurrence of new diseases a. Yes b. No c. If any c. Crop losses due to any atherse atterts theory rainfall, hailstones, cyclones, wind velocity, etc.) Cros / No. Post-harvest losses due to climate change () os No. Changes in yield c. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/season ((6)) al. Impact of Jarm income d. Increase		Disaste incluence	– — .∔		
c. Low ii. Occurrence of new diseases ii. Yes ii. No C. If any C. No C. If any C. No				<u> </u>	
ii. Occurrence of new diseases a. Yes b. No c. If any Crup losses due to any atterse affects (heavy painful), hallstones, syclones, wind velocity, etc.) Fost-harvest losses due to climate change (Yes. No) Changes in yield a. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/ season (Rs.) al. Impact of Jarm income	i1	>. Medium — — —	⊦		
a. Yes b. No c. If any c.			_	~ - '	
a. Yes b. No c. If any c.	_ ; ;	i. Occurrence of new diseases	1		
c. If any Copy bosses due to any atherse affects (heavy trauball, hallstomes, cyclones, wind velocity, etc.) B. Post-harvest losses due to climate change (ton No) Changes in visid Library of the control of the cont	- 14	Yes — — — —			
5. Cop losses due to any interse affects (hony trainfall, huistones, cyclones, wind velocity, etc.) 7. Post-harvest losses due to climate change () on Not Changes in yield a. Increase b. Decrease c. No change l. Changes in toot of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/season (8s.) iii. Impact of Jarm income	_1.6	No	— — i.		<i></i>
5. Cop losses due to any interse affects (hony trainfall, huistones, cyclones, wind velocity, etc.) 7. Post-harvest losses due to climate change () on Not Changes in yield a. Increase b. Decrease c. No change l. Changes in toot of cultivation a. Increase b. Decrease c. No change li. If it is increased, income per annum/season (8s.) iii. Impact of Jarm income	Te	If any			
Post-harvest losses due to climate change (Los No) Changes in yield a. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change th. If its increased, income per annum/ season (Rs.) al. Impact of Jarm income a. Increase	ΠC	TOP LOSSES down to the second control of the			
Post-harvest losses due to climate change (Los No) Changes in yield a. Increase b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change th. If its increased, income per annum/ season (Rs.) al. Impact of Jarm income a. Increase	10	ainfall, hailstones, cyclones, wind a least		· —.	
a. Increase b. Decrease c. No Change I. Changes in cost of cultivation a. Increase b. Decrease c. No change it. Changes in cost of cultivation a. Increase b. Decrease c. No change it. If its increased, income per annum/ season (64) al. Impact of Jarm income	<u>'' (</u>	Yes / No)		•	
a. Increase b. Decrease c. No Change I. Changes in cost of cultivation a. Increase b. Decrease c. No change it. Changes in cost of cultivation a. Increase b. Decrease c. No change it. If its increased, income per annum/ season (64) al. Impact of Jarm income	. F	ost-harvest losses due to climate change (Vm. No.			
b. Decrease c. No change l. Changes in cost of cultivation a. Increase b. Decrease c. No change lib. If it is increased, income per annum/season (Rs,) al. Impact of Jarm Income a. Increase					
No change I. Changes in toos of cultivation I. Changes in toos of cultivation Decrease Decrease No change II. If it is increased, income per annum/ season (8s,) III. Impact of Jarm income					
D. Changes in cost of cultivation		Decrease			
D. Changes in cost of cultivation		No change			
a. Increase D. Decnass C. No change B. If it is increased, income per annum/ season (Rs,) B. Impact of Jarm income a. Increase	. 17.	Changes in cost of cultivaria			
b. Decrease C. No change (b. If its increased, income per annum/ season (Rs.) (ii) Impact of Jarm income [iii] Impact of Jarm income	10	locmase	-		
c. No change ii. If it is increased, income per annum/ season (Rs,) iii. Impact of farm income a. Increase					
ii. If it's increased, incrine per annum/season (Rs,) iii. Impact of Jarm Income a. Increased, incrine					
1 a. Increase		True consequence			
1 a. Increase	113	u it is mereased, income per annum/season (Rs.)	— — l-	- +	
		Annact or rain income	- +		
			1-		
1c. No change		Decrease		<u> </u>	

		t affected stage	Second	most affected stage
	Stage	Weather parameter	Stage	Weather paramete
				1
	-			T
	[- , 	T		
<u> </u>	-			+
		 		

4. Adaptation strategies/measures taken up by farmers:

A. Crop adaptation strategies:

5.No.	Statement		Adapt	ation measur		
	i i		Initiated		Not la	itiated
		Increased o	ost E	pected cost)	
1.	Varieties					
	Charged from long duration to short duration varieties	_				
	b. Changed from short duration to long duration varieties					
2.	Changed fromto other crops				1	
3.	Changed in planting dates					
	-	Incre	ased	Decre	resed	No
	<u> </u>	Increased cost	Expected returns	Increased cost	Expected returns	. change
4.	Spacing between the row/plants					
5.	Quantity of seeds used		 			
6.	Quantity of fertilizer application		———— i	-		
7.	Number of Irrigations given		<u> </u>	 		
8.	Quantity of FYM applied					ı

lo.	Statement		Adaptation measures	
	ļ		iated	Not Initiated
	l	Increased cost	Expected cost	1
	Farm pond	,		
ļ.	Contour bunds			
١.	Graded bunds		ı — — — — — — — — — — — — — — — — — — —	<u>-</u>
	Ridges and furrows			
	Mulching	-		
	Drip irrigation	I ——	,, .	
	Additional Bore wells			
_	Deepening of wells	 		

C. Adaptation strategy by means of crop insurance No.

S.No.	Statement		Adaptation measures	
		Initi	iated	Not Initiated
	·	Increased cost	Expected cost	1
1.	Crop Insurance			
	a. \Yhen started?			
	b. For which crop?		·	·
	c. Benefits			·

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	, at n	ners' expectations to mitigate the ill effects	nf all—				IV. Inc	dividual Perceptio	n on Agrome	Advisory	
1 <u>[</u> 5		Farmers suggestions	· · · ·				Are you aware of weather	r fonecast? (Van Aktus	-	,	
^	ia.	<u>.</u>	Most	Respons Important		2.	Are you aware of Agrom	et Advisory? (Yes (Stat	_ ~		
_ [-]	1.	Early warning has to be given to the farmers about environmental changes	Important	1,	nportant	11	If yes, what is the source (Mention 3 Important	_~		
L				;	; <u> </u>		a. Farm friends/group d	iscussion at Channal	<i>:</i>		
3	· j	Creating awareness to the farmers about appropriate adaptation measures against climate change	 -	<u> </u>	<u>-</u>	Ш	 Market middleman purchase and sale ; outputs 	from where you	i		
L			•	i	i	1			•		
3	•	Development department should ensure	<u></u>		!	H	 Radio/Electronic med, Bulletins/other mass c 	in/ Newspaper/	. — —		
i	-	Development department should ensure supplying of production inputs at appropriate time in the villages	!				d. SMS	ommunication media	· 		
4.			⊢—	 	; ;	11	e. SHGs/NCOs/other		·		
- 1	- ∤;	Subsidles/compensation has to be given for the crops to make up the cost of cultivation due to weather aberrations	j i	;	<u>-</u>	II.	or gamzanons	voluntary	•		
5.		insurance has to be extended to all crops		1	i i		. Kisan Mela/Kisan Mah	interva, etc			
<u> </u>	_	_	Ī			4.1	g. Field demonstration				
1	١	roviding financial support for soil nutrient					L Others, specify		<u> </u>		
7.	Te	ncentives/support for			1 1] 3. [fow often you receive agre . Daily	met intermation?			
1	"	nanuring the green !	- i		 -	11	. Bi-weekly	:			
8.	Si	upport price has to be given to all the crup roduce based on cost of cultivation	- — — ¦	·-´	i		Werkly	;			
<u> </u>			i	1		[] .	Formighaly	•			
^{9.}	Cr	reating awareness/Support for adoption of		 :		11	Monthly	;			
10.					• 1	11	Seasonally	:			
	_	reen coverage has to be increased				11	hal are the parameters	of housesand and			
17.	Re	equirement of Agromet Advisory		, - 		11		a tonecast used by :			
	a.	Past weather data (days)		<u></u>		11	Rainfall	:			
		(3/5/10/>10 days) Weather forecast (days ahead)	!	, —		11	Temperature	:	_Keirfaß		
		(1/ 2/ 10/ 210 days)	! -	<u>,</u> – –	_ i	11	Wind speed				
	le.	Applications events (eg. Fertilizers, pesticides, weeding intercultivation operations, etc.)	i-			11	Wind direction				
	! '	operations, etc.)	- ! .		i	11	Cloud cover	:			
			 -		!	11	Any other	, -			
						. Are	you aware of AAS Bulleti	ns? (Yes/No) :	<u> </u>		 .
								•			
						[]					
					13]]					14
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	7	, 				_			_		
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IV. Individual Perception on Agromet Advisory

S.No.	Item	Suggestion
1.	Mode of dissemination	
2.	Time of dissemination in a day	
3.	Lead time	
4.	Frequency of Advisory	
5.	Content of Advisory	
6.	Language of Advisory	
7.	Commodity of Advisory	— <u>— </u>
8.	Management practices	

C880

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Appendix II: LIST OF FARMERS AT THAVANUR

BALAKRISHNAN K.K KRISHNAN KORATTIYIL THAVANUR PIN 679573

VMC NAMBOODHIRI VELLAYILMANA THAVANUR PIN 679573

M.K VELAYUDHAN
NELLIKULANGARA HOUSE
THAVANUR P.O
PIN 679573

N.P KORMAN THAVANUR

C.P MUNEER
CHITTAKATUPALIYIL
AYANKALAM P.O
PIN 679573

RAMESH KUMAR I.S IRUPPAYIL HOUSE THAVANUR PIN 679573

ACHYUTHAN MASTER KOTHANKULANGARA ATHALLUR PIN 679573

BASHEER E.P ENAMPARAMBIL HOUSE ATHALLUR PIN 679573

MUHAMATHKUTTY
MALIYURVALAPPIL
ATHALLUR
PIN 679573

ABDUL RAHMAN
NADUVILKARUMANKUZHIYIL
ATHALLUR
PIN 679573

MUHAMMATHKUTTY
NADUVILKARUMANKUZHIYIL
ATHALLUR
PIN 679573

MOYTHU
NADUVILKARUMANKUZHIYIL
ATHALLUR
PIN 679573

SAHARBAN K.K
PUTHUPARAMBIL HOUSE
THAVANUR
PIN 679573

SHAJI MURUDAVIL HOUSE THAVANUR PIN 679573

PATHMINI VAKAYIL HOUSE KADAKASSERY PIN 679573

JAMEELA MANNAMTHALA NARIPARAMBU

MAMMU MOZHOTTIL HOUSE KADAKASSERY PIN 679573

HARIDASAN ETTANGALLIL VELLANCHERY RAMACHANDRAN

KOTHANKULANGARA

ATHALLUR

PIN 679573

MUHAMATH

ENAMPARAMBIL

ATHALLUR

PIN 679573

ABDULLAKKUTTY

ENAMPARMBIL

ATHALLUR

PIN 679573

GOPALAN

CHAKKATH VEEDU

THAVANUR

PIN 679573

RAMACHANDRAN

KANNAMPARAMBIL HOUSE

THAVANUR

PIN 679573

ABDUL KAREEM

PATHUPARAMBIL HOUSE

THAVANUR

PIN 679573

BALAKRISHAN

CHANNAYIL HOUSE

THAVANUR

PIN 679573

HASNAS

KANNAMCHATHUVALAPPIL

HOUSE

THAVANUR

PIN 679573

GANGADHARAN

CHANNAYIL HOUSE

THAVANUR

PIN 679573

GOPI

CHANNAYIL HOUSE

THAVANUR

PIN 679573

CHANGAN K

KUTTIKKATTIL HOUSE

VELLANCHERY

MANIKANDAN

KUTTIKATTIL HOUSE

VELLANCHERY

SUBHRAMANYAM

PARAPPURATH HOUSE

VELLANCHERY

SURESH

THIRUVATHRA

VELLANCHERY

SUDHAKARAN

NERTHETHIL HOUSE

VELLANCHERY

THANKA

KANNAKATHARAYIL HOUSE

VELLANCHERY

BALAKRISHANA

NERTHETHIL HOUSE

VELLANCHERY

HARIDASAN NAIR

PADAKKAL HOUSE

VELLANCHERY

VASUDEVAN

NERTHETHIL HOUSE

VELLANCHERY

KUNJUNNI K.A

KARATTUILLATHAVALAPPIL

VELLANCHERY

VILASINI K.P ABOOBAKAR KANNAMPARAMBIL. THAZHETHIL HOUSE THAVANUR679573 **VELLANCHERY EBRAHIM ASHARAF** ULLATTUVALAPPII. CHAKALIPARAMBIL THAVANUR AYANKALAM P.O PIN 679573 PIN 679573 ACHYUTHAN BINEESH PLAKKAT HOUSE ANJUKALLIPARAMBIL HOUSE THAVANUR VALLANCHERY PIN 679573 SANKARAN MOYTHUKUTTY PANDARAVALAPPIL HOUSE VALIYAPEEDIKAYIL HOUSE MARAVANCHERI KADAKASSERY KADANCHERI PIN 679573 RASEENA THULASEEDHARAN NADAKAVIL HOUSE VALOLAVALAPPIL HOUSE TRIKANNAPURAM THAVANUR PIN 679573 PIN 679573 MUHAMMATHKUTTY SEYTH ALI THOZHUKATTUVALAPPIL KADAKASSERY HOUSE PIN 679573 THAVANUR PIN 679573 BHAVAHAJI DHANYA VALIYOLAPARAMBIL HOUSE VADAKKATTUVALAPPIL MARAVANCHERI KADAKASSERY YUSAF HAJI PIN 679573 VALIYAPEEDIKAYIL HOUSE KOCHUBAVA KADAKKASSERY VALIYAPEEDIKAYIL HOUSE PIN 679573 KADAKASSERY PIN 679573 **HAMSA** MARAYKAR HAJI ARIPARAMBIL HOUSE VALIYAPEEDIKAYIL HOUSE KADAKASSERYPIN 679573 THAVANUR PIN 679573 **HAMSA** POKKAR VELLACHALIL HOUSE KOTHUVANPARAMBIL THAVANUR HOUDE PIN 679573 MADHIRASSERY BHASKARAN KHADAR CHANNAYIL HOUSE MOOCHIKOOTATHIL HOUSE **THAVANUR ATAHALLUR**
